

Westfield Fasteners Product Specification:

DIN 96 - Slotted Round Head Woodscrews

This product guide contains the specification for metric sized slotted round head woodscrews, a series of standard parts available from Westfield Fasteners. The basis of this specification is the internationally recognised DIN standard DIN 96.

Product Description

Slotted Round Head Woodscrew. The Round/Dome shaped head gives an attractive finish when fitted. For use with any wood based projects. In comparison with the more readily available chipboard or particle board types, these screws are the traditional type of wood screw, with their slot drive and fuller thread form. Please refer to the dimensions and tolerances below when replacing existing woodscrews, as there can be wide variation between actual and nominal diameters, and between batches. Please note that woodscrews of similar type can be found under British Standard BS1210, and have their own form, dimensions and tolerances.

Scope of the DIN standard.

DIN 96 specifies the characteristics, tolerances and the variation in form of metric sized slotted round head wood screws, and covers thread diameters from 1.6mm, up to and including 8mm. Table 1 below defines the overall dimensions and tolerances for slotted countersunk woodscrews, whilst table 2 defines the tolerance on the shank length.

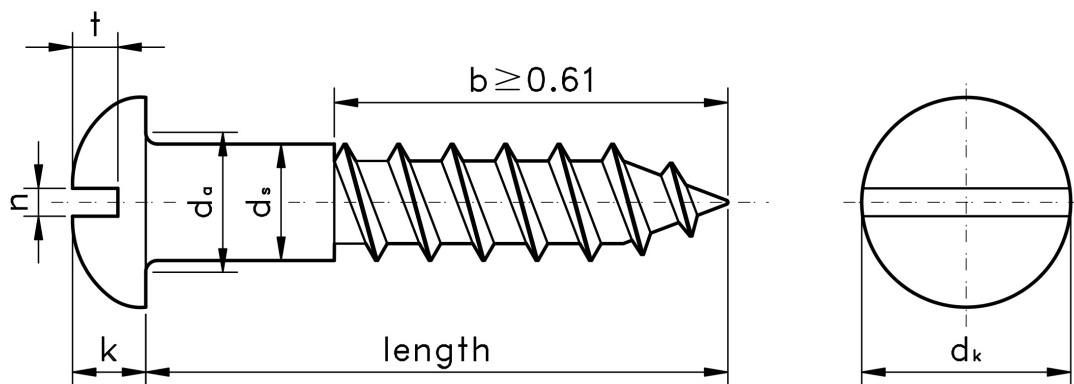


Figure 1: Slotted Round Head Woodscrew

Table 1: Dimensions & Tolerances according to DIN 96 (mm)

Thread Size		1.6	2	2.5	3	3.5	4	4.5	5	5.5	6	7	8
shank diameter, d_s	max	1.60	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	7.00	8.00
	min	1.20	1.60	2.10	2.60	3.02	3.52	4.02	4.52	5.02	5.52	6.42	7.42
inner diameter of bearing face, d_a	max	2.2	2.8	3.3	3.8	1.3	5	5.5	6	6.6	7.2	8.2	10.2
head diameter, d_k	nom	3.2	4	5	6	7	8	9	10	11	12	14	16
	max	3.58	4.38	5.38	6.38	7.45	8.45	9.45	10.45	11.55	12.55	14.55	16.55
	min	2.83	3.62	4.62	5.62	6.55	7.55	8.55	9.55	10.45	11.45	13.45	15.45
head height, k	nom	1.1	1.4	1.7	2.1	2.4	2.8	3.1	3.5	3.8	4.2	4.9	5.6
	max	1.30	1.60	1.90	2.30	2.60	3.00	3.34	3.74	4.04	4.44	5.14	5.84
	min	0.90	1.20	1.50	1.90	2.10	2.60	2.86	3.26	3.56	3.96	4.66	5.36
major radius of head, r_f	\approx (approx.)	2.6	3.2	4.0	4.8	5.6	6.40	7.2	8.0	8.8	9.6	11.2	12.8
slot width, n	nom	0.4	0.5	0.6	0.8	0.8	1	1	1.2	1.2	1.6	2	2
	max	0.60	0.70	0.80	1.00	1.00	1.20	1.20	1.51	1.51	1.91	2.31	2.31
	min	0.46	0.56	0.66	0.86	0.86	1.06	1.06	1.26	1.26	1.66	2.06	2.06
minor radius of head, r	\approx (approx.)	1.3	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.8	5.6	6.4
slot depth, t	max	0.7	0.9	1.1	1.35	1.6	1.8	2.0	2.3	2.5	2.7	3.2	3.6
	min	0.55	0.70	0.85	1.05	1.20	1.40	1.55	1.75	1.90	2.10	2.45	2.80

Table 2: Shank Length Tolerance according to DIN 96 (mm)

Nominal Size	+/-
8-10	0.75
12-18	0.90
20-30	1.00
35-50	1.25
60-80	1.50

For further details, please refer to the ISO/DIN standard document for this item.